COURSE: CS/DSA-4513 - DATABASE MANAGEMENT
SECTION: 001
SEMESTER: FALL 2021 INSTRUCTOR: Dr. Le Gruenwald
GRADED HOMEWORK NUMBER: 3 GROUP NUMBER: 15
GROUP MEMBERS: Chanon Cserepy, Kiley Peters, Tyler Sanbar, Benjamin Xia
SCORE:

1.1

a

Messages

```
11:14:02 AM    Started executing query at Line 1
               Msg 213, Level 16, State 1, Line 3
               Column name or number of supplied values does not match table definition.
               Total execution time: 00:00:00.054
```

b

Messages

```
11:13:04 AM    Started executing query at Line 1
               Msg 156, Level 15, State 1, Line 7
               Incorrect syntax near the keyword 'NULL'.
               Total execution time: 00:00:00.054
```

c

Messages

```
11:14:56 AM    Started executing query at Line 1
               Msg 213, Level 16, State 1, Line 9
               Column name or number of supplied values does not match table definition.
               Total execution time: 00:00:00.057
```

d

Results Messages

```
11:16:11 AM    Started executing query at Line 1
               Msg 245, Level 16, State 1, Line 15
               Conversion failed when converting the varchar value 'Parker' to data type int.
               Total execution time: 00:00:00.159
```

1.2

We chose the director id in the movies table as our search key for indexing as a secondary index. The movies table has the most attributes of all of the tables in our database. This would allow us to see the data sorted by the director id and easily see which directors are associated to each movie. Therefore, an index for movies would benefit in searching on our database. Below is a screenshot for creation of the index.

```
92    CREATE INDEX index_did ON Movie (did)
```

We re-ran the following query since it includes the did attribute under Movie.

```
UPDATE Director SET earnings = earnings * 0.9 WHERE did = (SELECT did FROM Movie WITH(INDEX(in
dex_did)) WHERE mname = 'Up');
```

These are the results.

	did	dname	earnings
1	1	Parker	580000
2	2	Black	2500000
3	3	Black	30000
4	4	Stone	73800